

SNS Quality Assurance Graded Approach to Requirements

from SNS-QA-P01 Rev. 2



First determine the grade level in Table 1, then apply appropriate actions from Table 2. A marked copy of this sheet can be a record.

Table 1. Determination of quality level

| Risk Type | Grade | | |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Level 1. Serious | Level 2. Moderate | Level 3. Routine |
| Functional | __ Potential for a significant adverse impact to completion of the SNS Project or to achieving key performance goals. | __ Potential for a moderately adverse impact to the SNS Project by affecting a WBS level 3 task or a major system or component. | __ Potential for negligible impact to an SNS task, system, or component. |
| Environment, safety, and health | __ Potential for (1) a death or total disability or severe adverse impact on the health or safety of a worker or the public, or (2) environmental damage that could exceed regulatory limits or involve significant cleanup costs. | __ Potential for injury or illness requiring hospitalization, temporary or partial disability, or moderately adverse impact on the health or safety of a worker or the public. | __ Potential for (1) minimal impact on the health and safety of the public or a worker, such as injury or illness requiring minor supportive treatment but not requiring hospitalization, or (2) a negligible impact on the environment. |
| Cost | __ Potential for a financial loss of \$500K or more. | __ Potential for a financial loss of \$50K or more. | __ Potential for a financial loss less than \$50K. |
| Compliance | __ Potential for inadvertent noncompliance with state and federal laws and regulations or DOE requirements. | __ Potential for inadvertent noncompliance with administrative orders or procedures established by the SNS Project Office. | __ Potential for minor noncompliance with established management practices. |
| Grade = ____ | If there are any marks in level 1, the grade is 1. If there are level 2 marks but none in level 1, the grade is 2. Otherwise, all marks are in level 3 and the grade is 3. | | |

Table 2. Actions appropriate to quality levels

| | Grade | | |
|--------|-----------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|
| | Level 1. Disciplined | Level 2. Balanced | Level 3. Flexible |
| Action | Design reviews and <i>independent</i> verifications | Design reviews and verifications | Little or no design reviews, verification, or validation |
| | Thorough documentation | Adequate and appropriate documentation | Minimal documentation |
| | Established acceptance criteria listing (ACL) | Established ACL | ACL not required |
| | Vendor qualification and surveillance | Vendor qualification (questionnaire minimum) | Little or no vendor qualification |
| | Formal procedures | Procedures as needed | No formal procedures except ES&H (i.e., follow good practices) |
| | Complete oversight and assessment activities | Oversight covered under general management assessments | Oversight performed by line supervision |
| | Controlled measuring and test equipment (M&TE) | Controlled M&TE | M&TE generally not used |
| | Documented worker qualifications | Knowledgeable personnel employed | Knowledgeable personnel employed |
| | Formal inspection and testing | Tests and inspections conducted appropriately | Normal receipt inspection only (except where ES&H requires more) |
| | QA approvals are required | QA representative consultations are required | QA consultations are available |

This table was marked to show the grading process. By _____ Date _____ QAR _____ Date _____

For (Eq. Id Name or Number) _____